

ABSTRACT

An apparatus of generating an output code stream includes a first bit repeater to repeat an incoming code stream, a second bit repeater to repeat a first parity bit stream of the incoming code stream, and a third bit repeater to repeat a second parity bit stream of the incoming code stream. A multiplexer is coupled to the first, second, and third bit repeaters to combine the repeated incoming code stream, the repeated first parity bit stream, and the repeated second parity bit stream to generate the output code stream that is optimally-repeated from the incoming code stream and its parity bit streams. A method of generating an optimally-repeated output code stream from an incoming code and its parity bit streams is also described.